

Form PTO-1449

Docket Number (Optional)  
MTV-014.05Application Number  
10/731,702INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(On several sheets if necessary)

Applicant  
Buchwald, Stephen et al.Filing Date  
December 9, 2003

Group Art Unit

1626

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EXAMINER INITIALS & TRADEMARK		DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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ES	A9	US 5,144,050	09/01/92	Chan et al.	556	20	10/01/91	
	A10	US 5,206,399	04/27/93	Sayo et al.	556	20	10/01/91	
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A38	US 5,977,361	11/02/99	Hartwig et al.	544	264	10/14/98
A39	US 6,100,398	08/08/00	Hartwig et al.	544	264	06/30/99
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						YES	NO
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B2	EP 0 135 392 A2	03/27/85	European Patent Application				X
B3	EP 0 156 607 A2	10/02/85	European Patent Application				
B4	EP 0 156 607 B1	10/02/85	European Patent Specification				
B5	EP 0 174 057 A2	03/12/86	European Patent Application				
B6	EP 0 174 057 B1	03/12/86	European Patent Specification				
B7	EP 0 118 257 B1	12/17/86	European Patent Specification				X
B8	EP 0 235 450 A1	09/09/87	European Patent Application				
B9	EP 0 135 392 B1	02/03/88	European Patent Specification				
B10	EP 0 503 884 A1	09/19/91	European Patent				X
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B12	EP 0 466 405 B1	01/15/92	European Patent Specification				
B13	EP 0 667 350 A1	08/16/95	European Patent Application				X
B14	WO 95/22405	08/24/95	PCT				

Form PTO-1449				Docket Number (Optional) MTV-014.05		Application Number 10/731,702	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (Use several sheets if necessary)				Applicant Buchwald, Stephen et al.		Group Art Unit 1626	
				Filing Date December 9, 2003			
ES	B15	JP 0 733 0786	12/19/95	Japan Patent Abstract			X
	B16	JP 8311090	11/26/96	Japan			X
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	B18	EP 0 802 173 A1	10/22/97	European Patent			X
	B19	EP 0 826 694 A1	03/04/98	European Patent Application			
	B20	WO 98/12202	03/26/98	PCT			X
	B21	WO 98/15515	04/16/98	PCT			
	B22	EP 0 849 274 A1	06/24/98	European Patent Application			X
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	C6	Stepan Vyskocil, "Derivatives of 2-Amino-2'-diphenylphosphino-1,1'-binaphthyl (MAP) and Their Application in Asymmetric Palladium (0)-Catalyzed Allylic Substitution," <i>J. Org. Chem.</i> , Vol. 63, pp. 7738-7748 (1998)					
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		Filing Date December 9, 2003	Group Art Unit 1626
	C13	Bei, X. et al., "A Convenient Palladium/Ligand Catalyst for Suzuki Cross-Coupling Reactions of Arylboronic Acids and Aryl Chlorides", Tetrahedron Letters, 40:3855-3858 (1999)	
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	C18	Cho, S. Y. et al., "The assymetric synthesis of cyclopentane derivatives by palladium-catalyzed coupling of prochiral alkylboron compounds", Tetrahedron:Asymmetry, 9:3751-3754 (1998)	
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	C27	Mann, G. et al., "Palladium-Catalyzed C-N(sp <sup>2</sup> ) Bond Formation: N-Arylation of Aromatic and Unsaturated Nitrogen and the Reductive Elimination Chemistry of Palladium Azolyl and Methyleneamido Complexes", J. Am. Chem. Soc., 120:827-828 (1998)	
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		Filing Date December 9, 2003	Group Art Unit 1620
ES	C64	Hattori, T. et al., "Nucleophilic Aromatic Substitution Reactions of 1-Methoxy-2-(diphenylphosphinyl)naphthalene with C-, N-, and O-Nucleophiles: Facile Synthesis of Diphenyl(1-substituted-2-naphthyl)Phosphines", <i>Synthesis</i> , no. 2 : 199-202 (Feb. 1994).	
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	C66	Langer et al., "Catalytic Asymmetric Hydrosilylation of Ketones Using Rhodium-(1)-Complexes of Chiral Phosphinooxazoline Ligands", <i>Tetrahedron : Asymmetry</i> 7(6): 1599-1602 (1996).	
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Form PTO-1419	Docket Number (Optional) MTV-01405	Application Number 10/731,702
<b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> (Use several sheets if necessary)		
Applicant BUCHWALD, Stephen L. et al.		Group Art Unit Not Yet Assigned 1676
Filing Date December 9, 2003		

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ES	AA 6,274,745	08-14-2001	Inanaga et al.			
	AB					
	AC					
	AD					
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	AK					

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

	AQ	
	AR	
	AS	

EXAMINER	<i>Shenck Sackey</i>	DATE CONSIDERED 5/25/06
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



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**SUPPLEMENTAL  
INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**  
(Use several sheets if necessary)

Docket Number (Optional)  
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Application Number  
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Applicant  
Buchwald, S.L.

Filing Date  
12/09/03

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1626

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
ES	DA 0731 105	09-1996	EP	-	-		

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages Etc.)


EXAMINER	<i>Heinrich</i>	DATE CONSIDERED 5/25/06
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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**Docket Number (Optional)**  
MTV-014.05

**Application Number**  
10/731,702

**Applicant**  
**Buchwald, S.L.**

**Filing Date**  
**12/09/03**

**Group Art Unit**  
**1626**

[illegible]

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

(Including Author, Title, Date, Pertinent Pages Etc.)


**EXAMINER**

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11/15/04

Sheet Page 1 of 1

Form PTO-1449		Docket Number (Optional) MTV-014.05		Application Number 10/731,702	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE CITATION / IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Applicant Buchwald, S.L.			
		Filing Date 12/09/03		Group Art Unit 1626	
<b>U.S. PATENT DOCUMENTS</b>					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	FILING DATE IF APPROPRIATE
ES	AC 5,663,426	09/02/97	Albanese et al.	562	35 10/02/95
<b>FOREIGN PATENT DOCUMENTS</b>					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS Translation YES NO
<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages Etc.)</i>					
ES	AD	Database CAPLUS on STN Chemical Abstracts (Columbus, Ohio USA) Fabbri et al., CA:121:108962 "Binaphthyl-substituted chiral phosphines and oxides from binaphthophospholes and nucleophiles" abs of Synthetic Comm., 1994, Vol. 24, No. 9, pages 1271-1278			
ES	AE	Database CAPLUS on STN Chemical Abstract (Columbus, Ohio USA), Old et al., CA 133:43406 "Efficient Palladium-Catalyzed N-Arylation of Indoles" abs of Organic Letters. 200, Vol. 2, No. 10, pages 1403-1406			
ES	AF	Database CAPLUS on STN Chemical Abstracts (Columbus, Ohio USA) Tomori et al. CA:133:266921 "An Improved Synthesis of Functionalized Biphenyl-Based Phosphine Ligands" abs of Journal of Organic Chemistry. 2000, Vol. 65, No. 17, pages 5334-5341			
ES	AG	Database CAPLUS on STN Chemical Abstracts (Columbus, Ohio USA), Van Der Winkel et al., CA:114:229033 "Investigations of highly crowded phosphino lambda 3, lambda 5-diphosphaphenanthrene" abs of Heteroatom Chemistry. 1991, Vol. 2, No. 1, pages 17-28			
ES	AH	Database CAPLUS on STN Chemical Abstracts (Columbus, Ohio USA), Huang et al., CA:139:117168 "Expanding Pd-Catalyzed Bond Forming Processes: The First Amidation of Aryl Sulfonates, Aqueous Amination and Complementary with Cu-Catalyzed Reactions, abs of J. Amer. Chem. Soc. 2003, Vol. 125, No. 22, pages 6653-6655			
ES	AI	International Search Report, PCT/US03/38945 mailed on October 12, 2004			
EXAMINER				DATE CONSIDERED 5/25/06	
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